

***Your National Weather Service and  
Emergency Management:  
A Life Saving Partnership!***  
**February 2005 IAEM Conference**

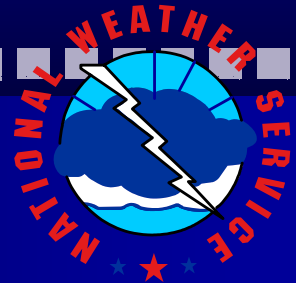
Bill Proenza  
Regional Director  
National Weather Service  
Southern Region

# Overview

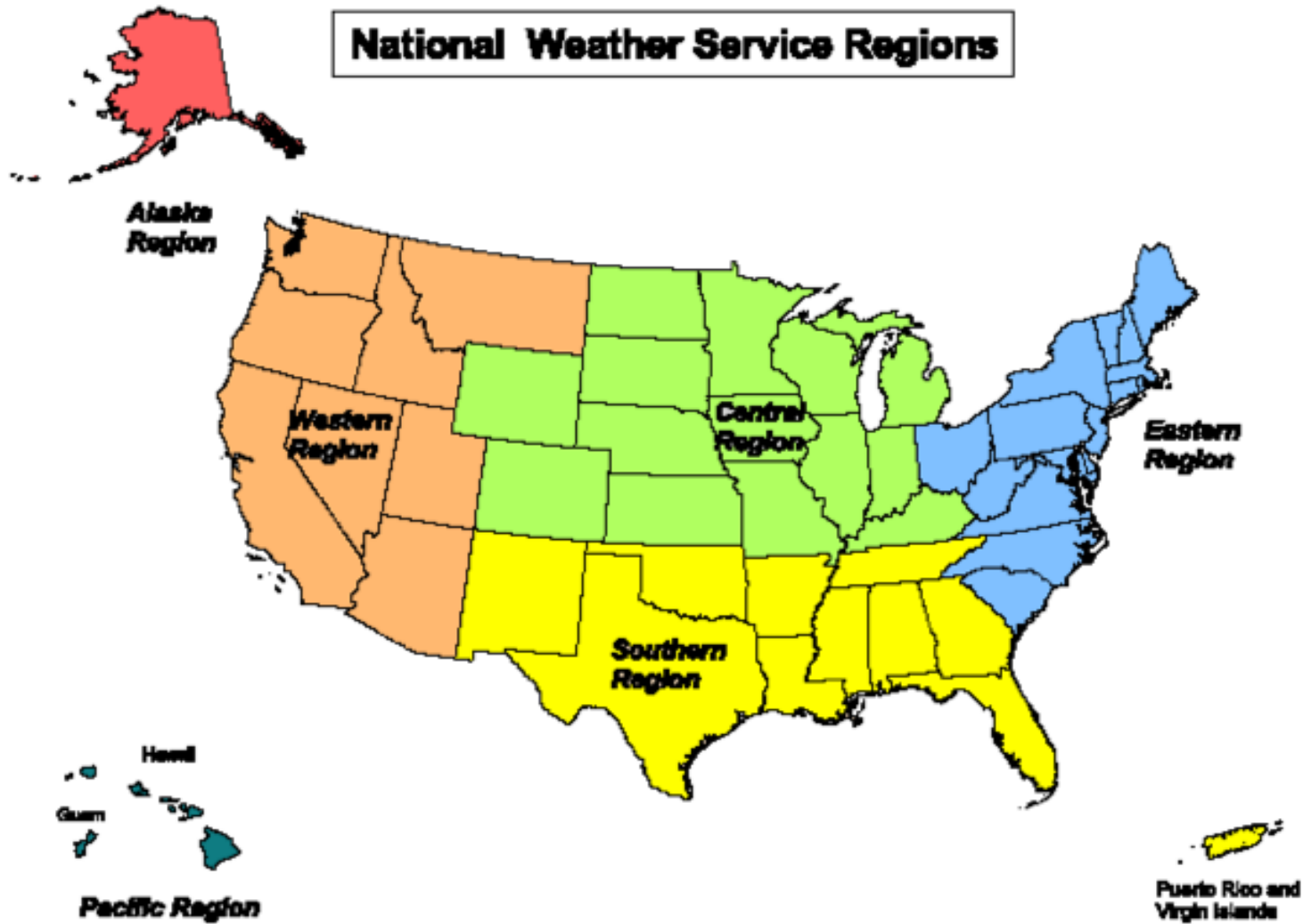
- The National Weather Service and our Severe Weather Active Nation
- The Tidal Wave aka Tsunami; The Forgotten Danger
- Your Internet: For the Latest in Developing Weather and Warnings



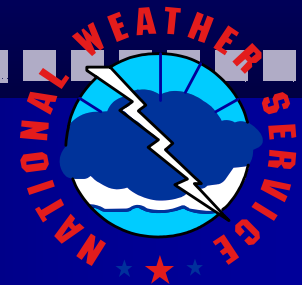
NWS SOUTHERN REGION  
[www.srh.weather.gov](http://www.srh.weather.gov)



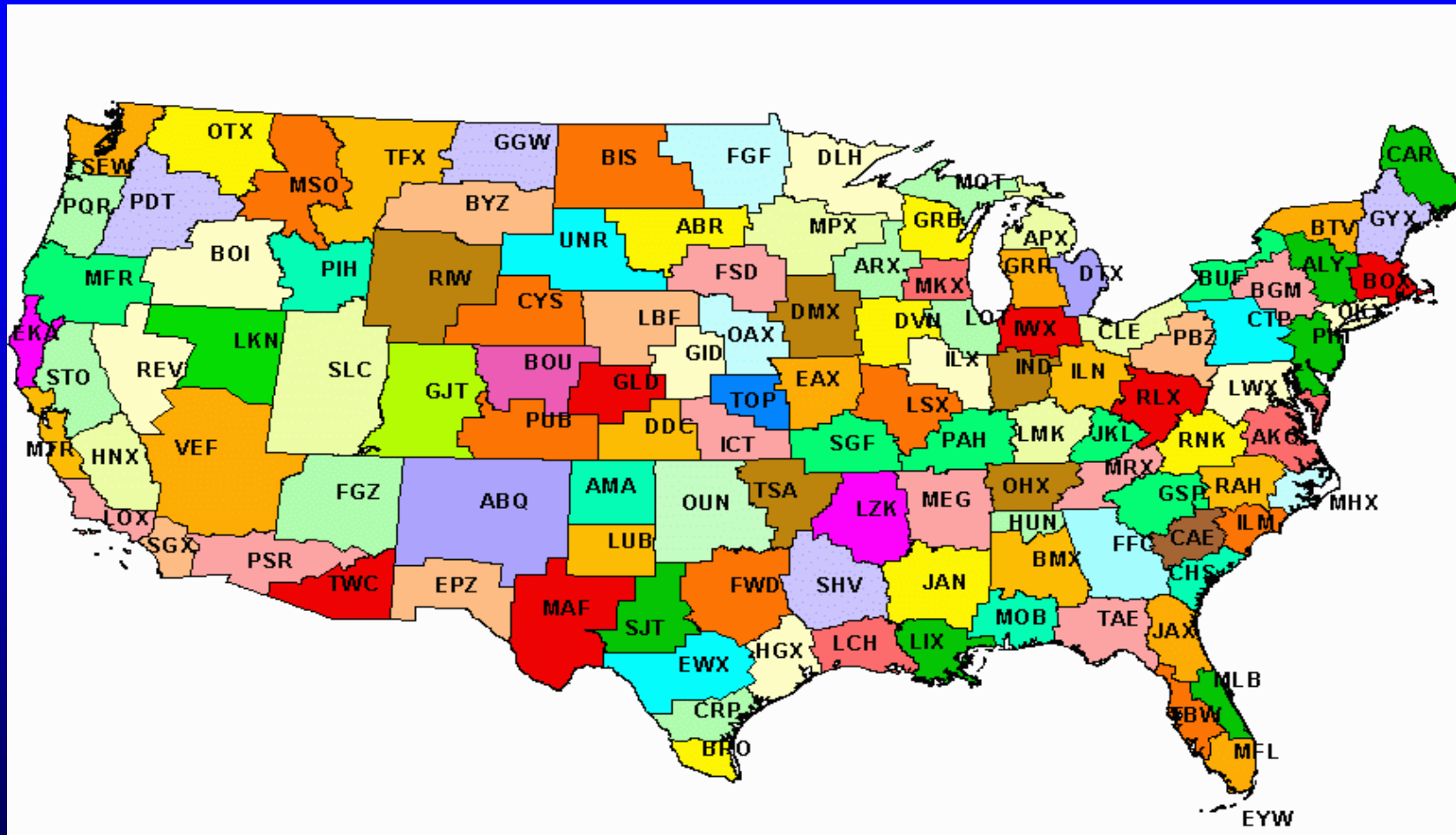
## National Weather Service Regions



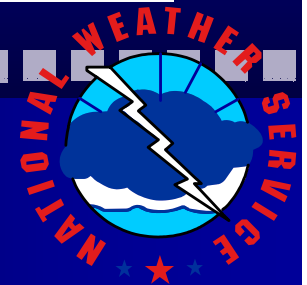
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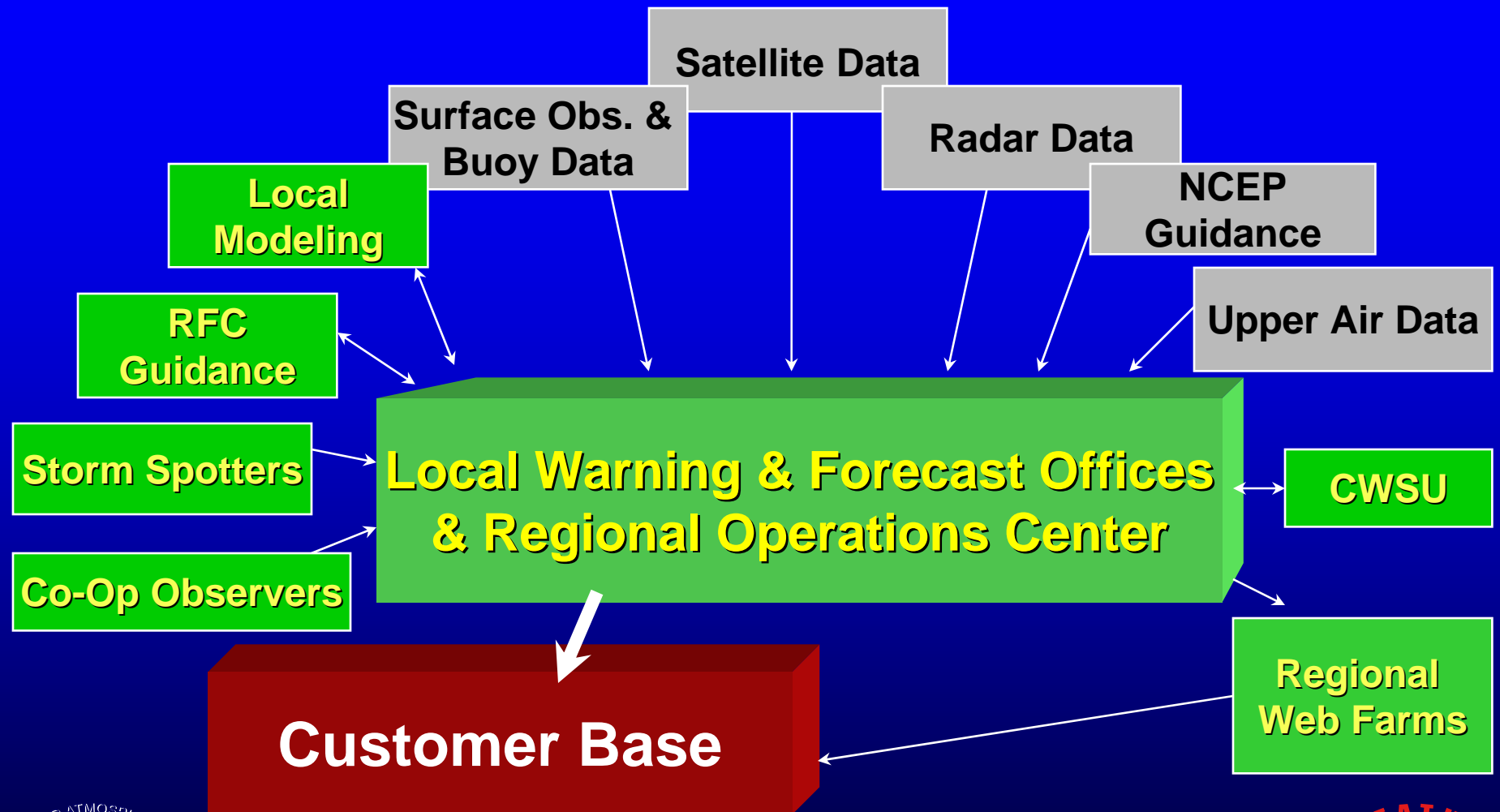
# 122 NWS Warning Forecast Offices



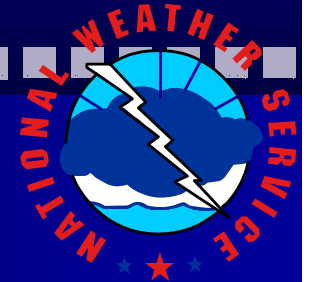
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# NWS Information Flow



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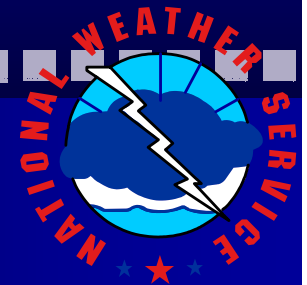
# Benefits of Your Local WFO

## Local Area Expertise For:

- More Accurate Forecasts and Warnings
- Outreach and Partnership with Emergency Management Community
  - **Public awareness supports our mission delivery**
- Greater Service to Public and Partners
- Better Climate Services
- Homeland Security – Weather Support 24/7

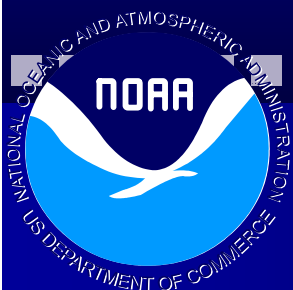


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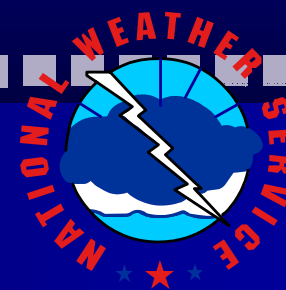


# Regional Operations Center

- Federal/State/Local EM briefings
- NWS office coordination
- Staff deployments to threatened areas
- Supporting Emergency maintenance and equipment needs
- Media briefing & Post-event assessment & reporting

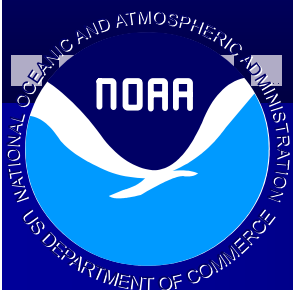
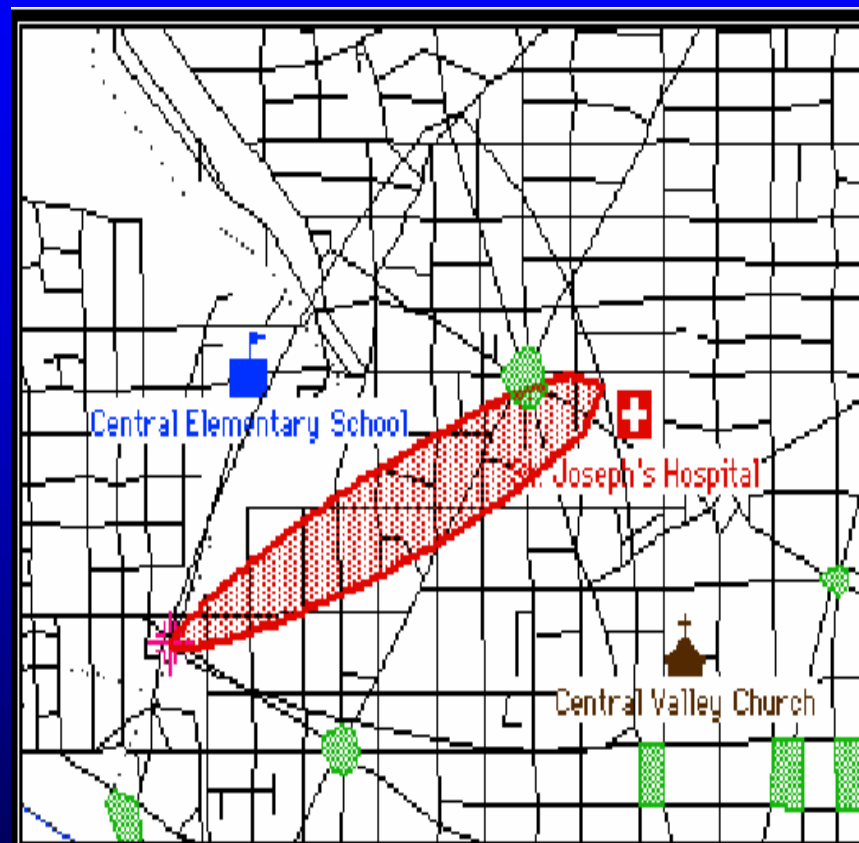


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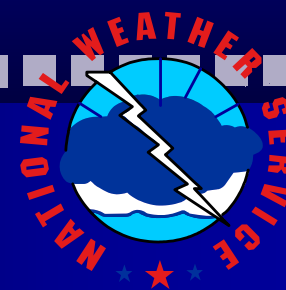


# Homeland Security

- NWS Local Offices provide key weather to Federal, State and Local agencies.
- High resolution local modeling solutions from WFOs.

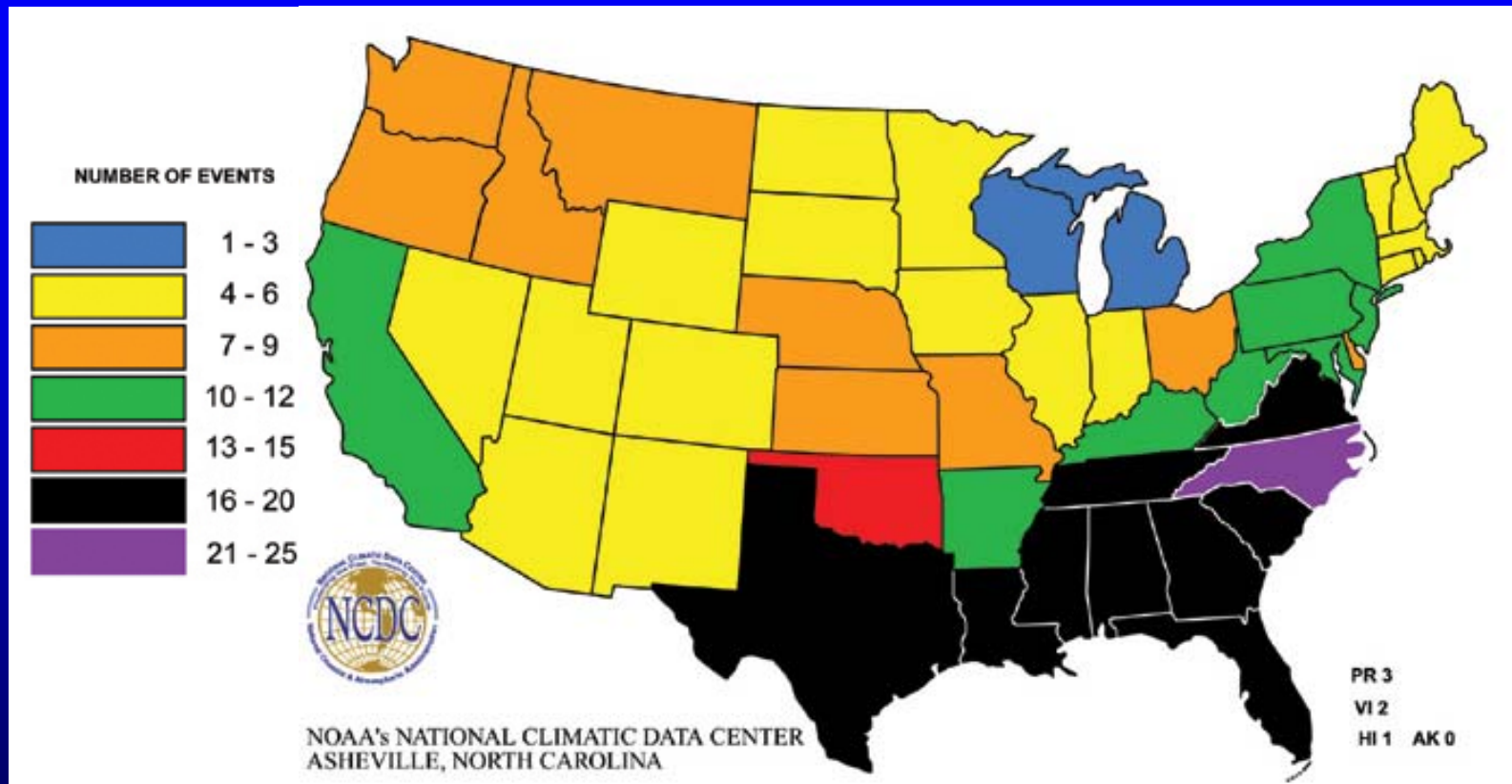


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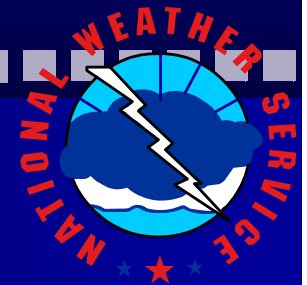
# World's Most Active Weather!



Billion Dollar Weather Events, 1980-2004



NWS SOUTHERN REGION  
[www.srh.weather.gov](http://www.srh.weather.gov)



# U.S. has the most Tornadoes

SR 3,236

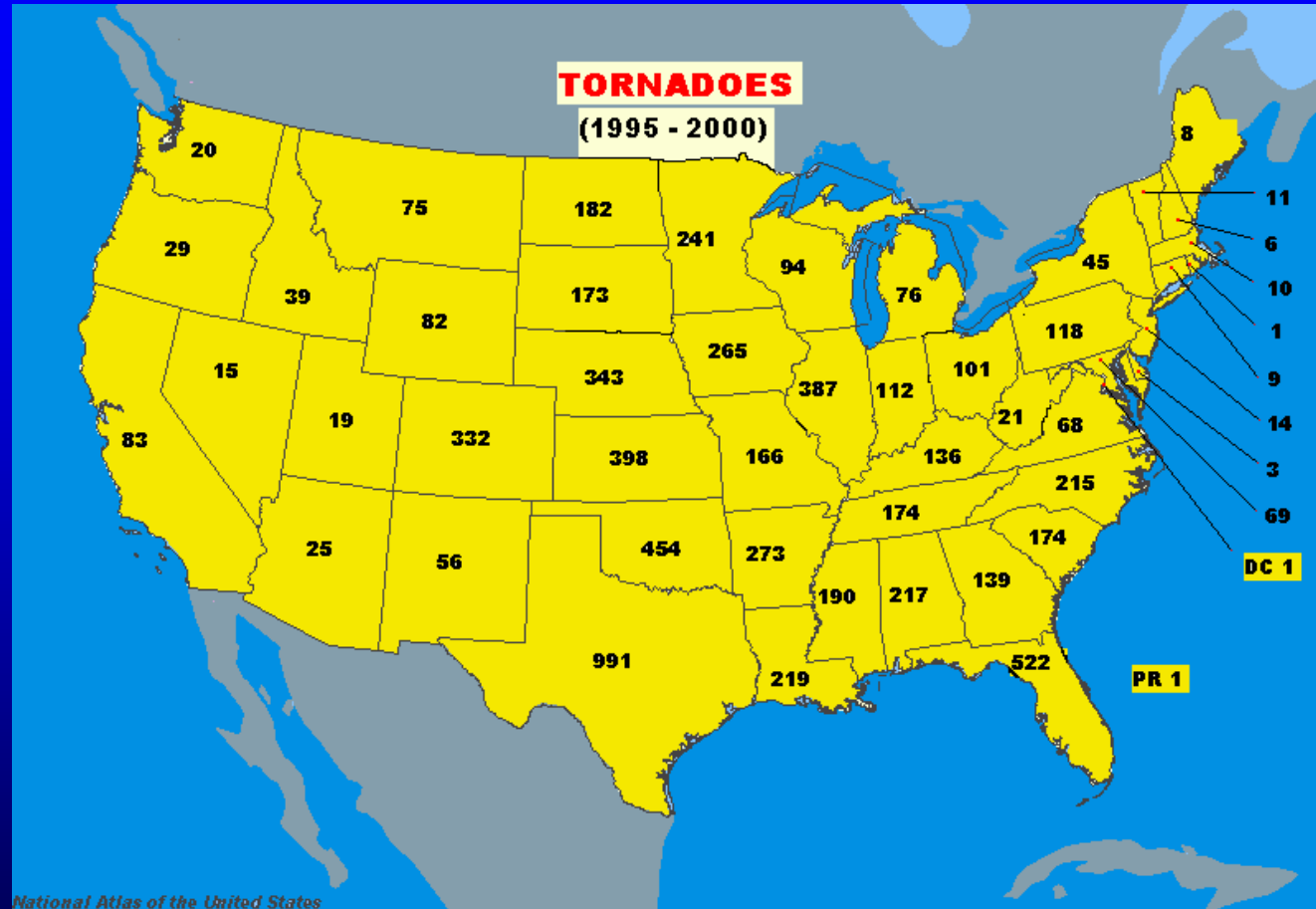
CR 2,987

ER 874

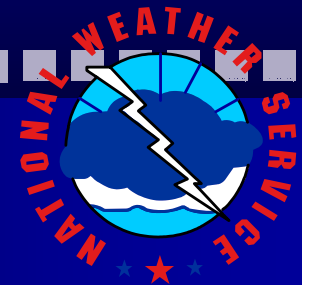
WR 305

**TOT 7,402**

(1995-2000)



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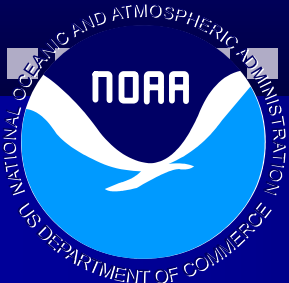
# WFOs & EM Community Save Lives

## April 1974 Super Outbreak

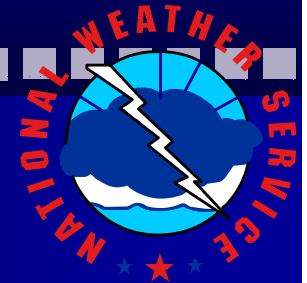
- Single largest 24 hour tornado outbreak
- 148 Tornadoes
- 330 Fatalities
- Up to 5 Minute Lead Time

## May 2003 Outbreak

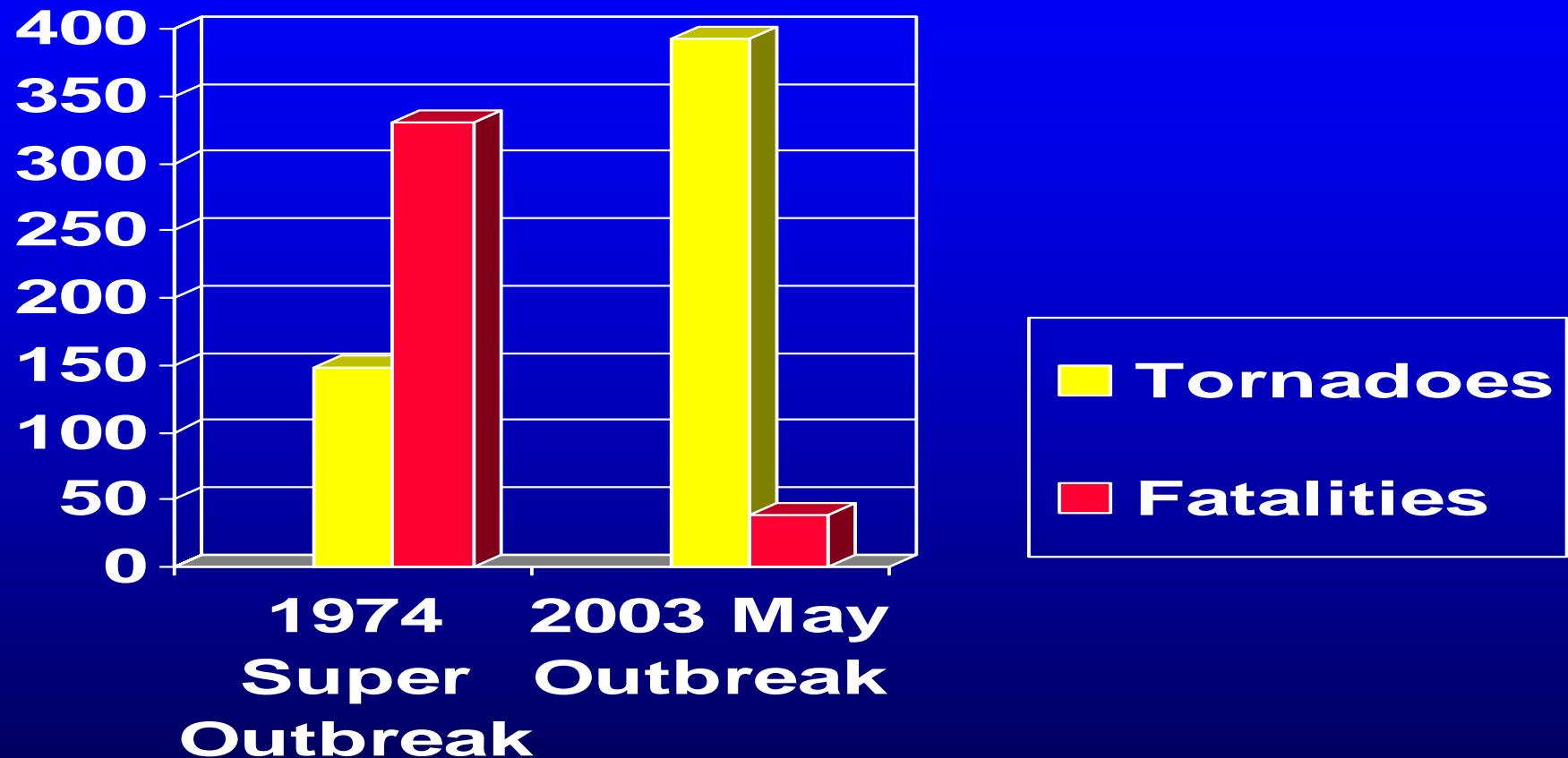
- Unprecedented in size & time (9 days)
- 340 Tornadoes
- 39 Fatalities
- Averaged **19 Minute** Lead Time



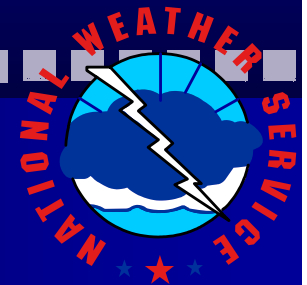
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# Local WFOs Save Lives

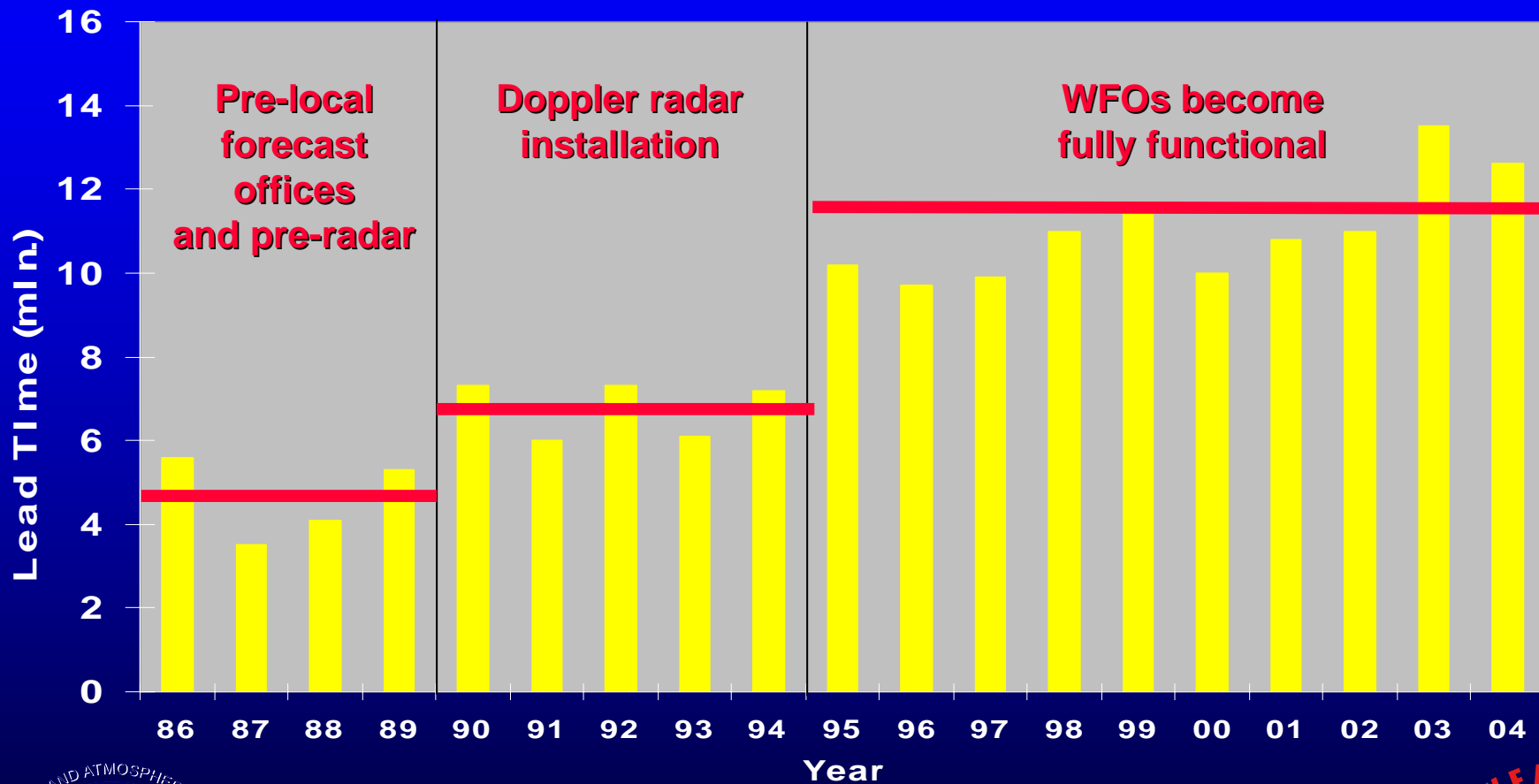


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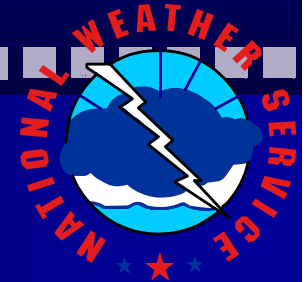


# Local WFOs Save Lives

## Tornado Warning Lead Time

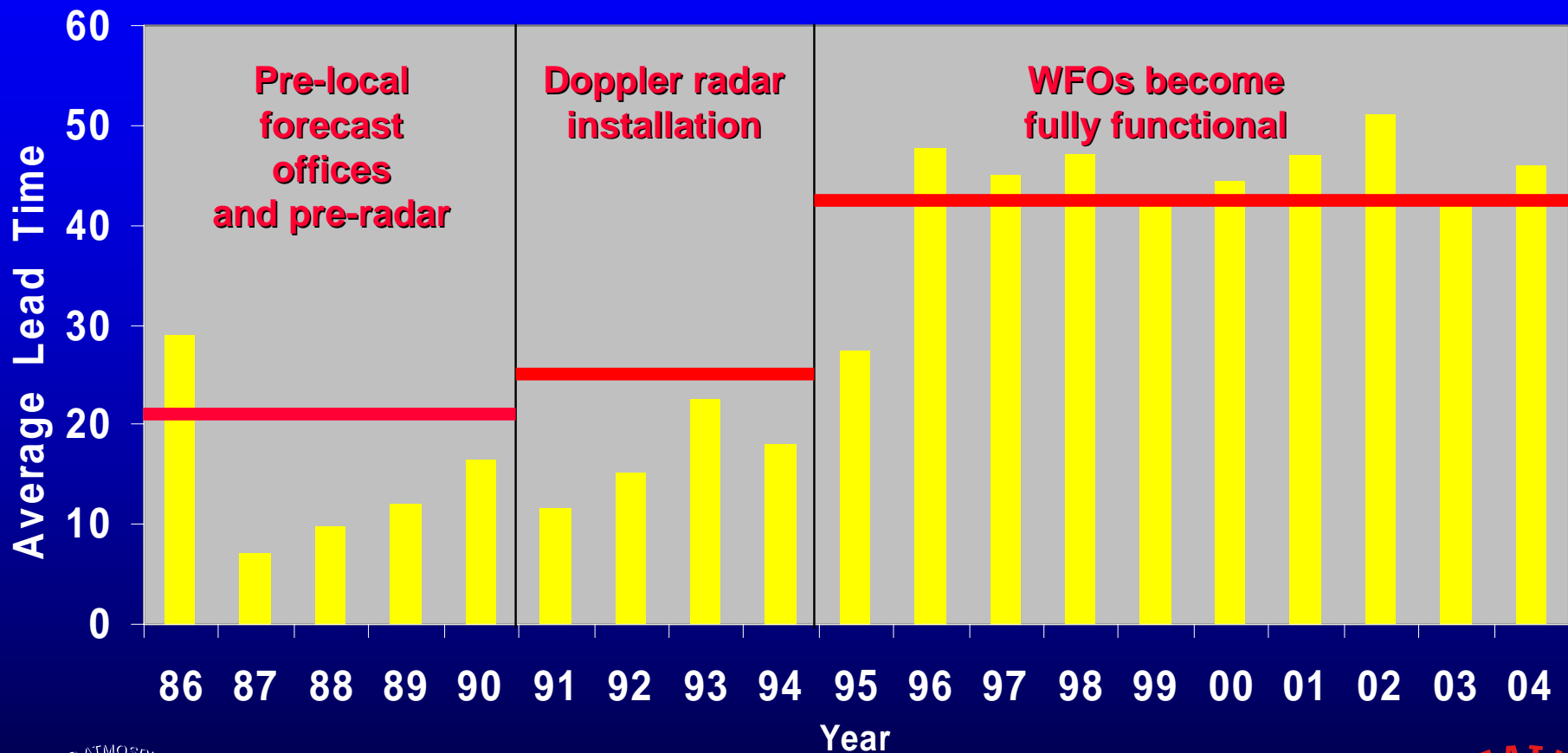


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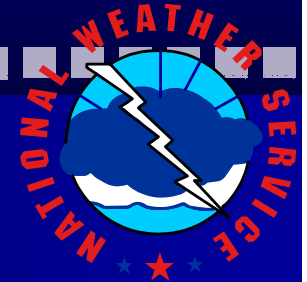


# Local WFOs Save Lives

## Flash Flood Warning Lead Time

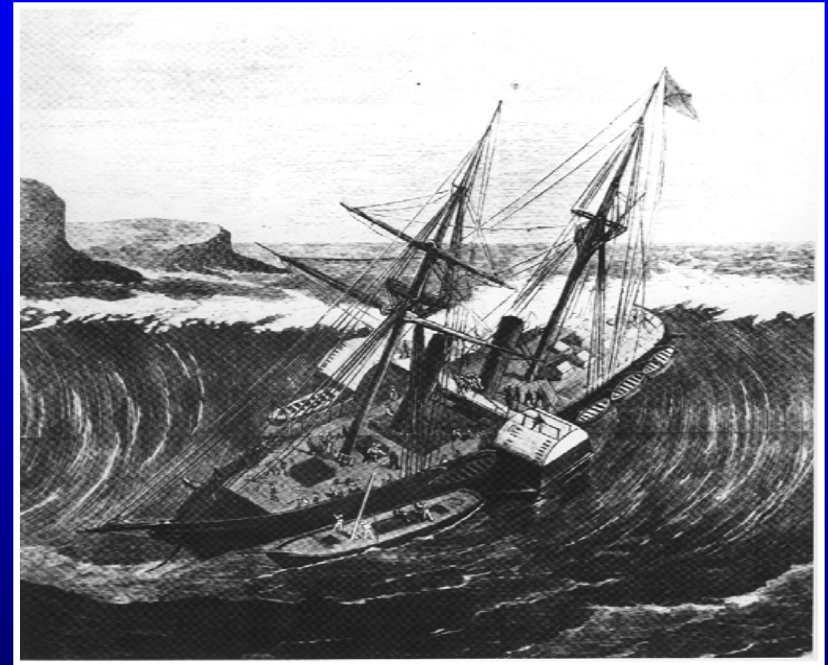


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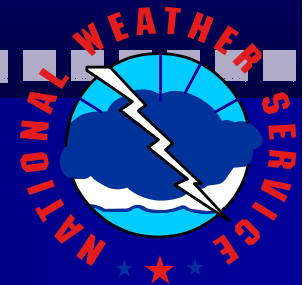


# Distribution of Tsunamis in the World's Oceans

Location	%
Atlantic East Coast	1.6
Atlantic West Coast	0.4
Mediterranean	10.1
Caribbean	13.8
Bay of Bengal	0.8
East Indies	20.3
Oceania	25.4
Japan-Russia	18.6
Pacific East Coast	8.9



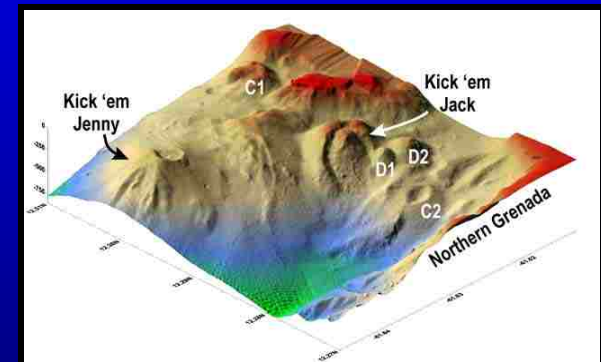
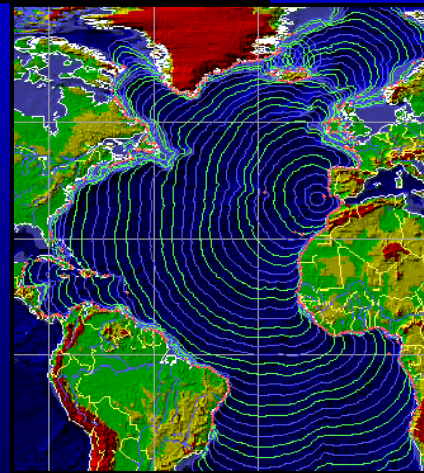
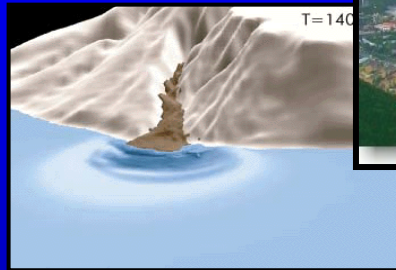
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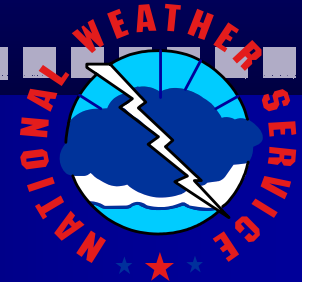


# Atlantic Tsunami-genic Events

- Earthquake
- Landslide
- Submarine Volcano
- Tele-tsunami



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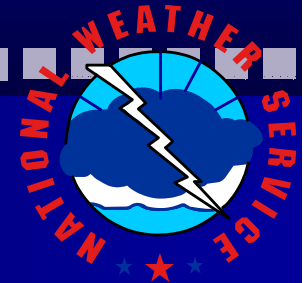


# Western North Atlantic Tsunami Fatalities in last 150 Years

Date	Place	Fatalities
1853	Venezuela	600-4,000 (est.)*
1867	Virgin Islands	23
1882	Panama	75-100
1906	Jamaica	500
1918	Puerto Rico	91-100
1929	Canada	28
1946	Dominican Republic	1,790; 75
1991	Costa Rica	2
		<b>2,584 TOTAL</b> *not included



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# Elements of Tsunami Warning System

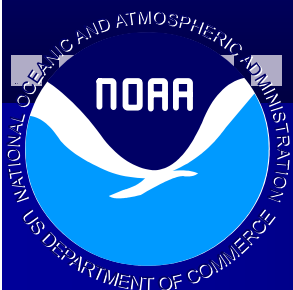
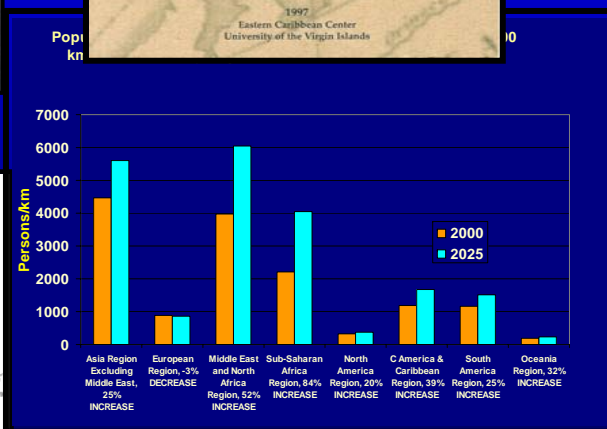
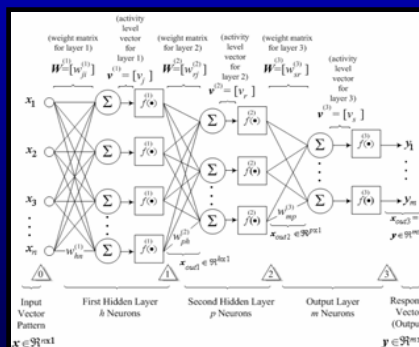
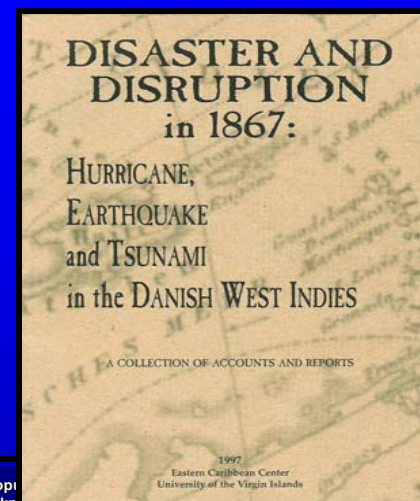
- Education

- Warning

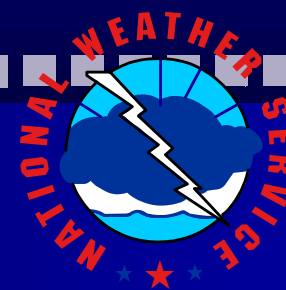
Seismic, Sea Level, Communications

- Community Preparedness

- Research



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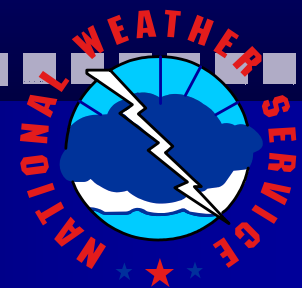
# NWS SR Internet Site

[www.srh.weather.gov](http://www.srh.weather.gov)

- Serves as a one-stop source of weather information.
- Developed with the both - partners and general users - in mind.
  - **Easy navigation**
  - **Data given in the manner you need it.**
- Increases public awareness and response to valuable NWS 24/7 products and services.



NWS SOUTHERN REGION  
[www.srh.weather.gov](http://www.srh.weather.gov)

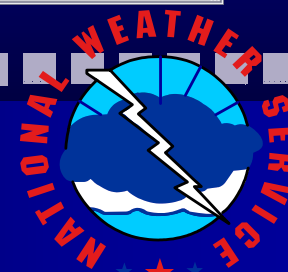


# NWS SR Internet Site

- Forecasts obtained by either **postal zip code**, **city/state search**, or by **point and click map**
- Weather Information in clear, concise format
- Emphasizes local WFO expertise

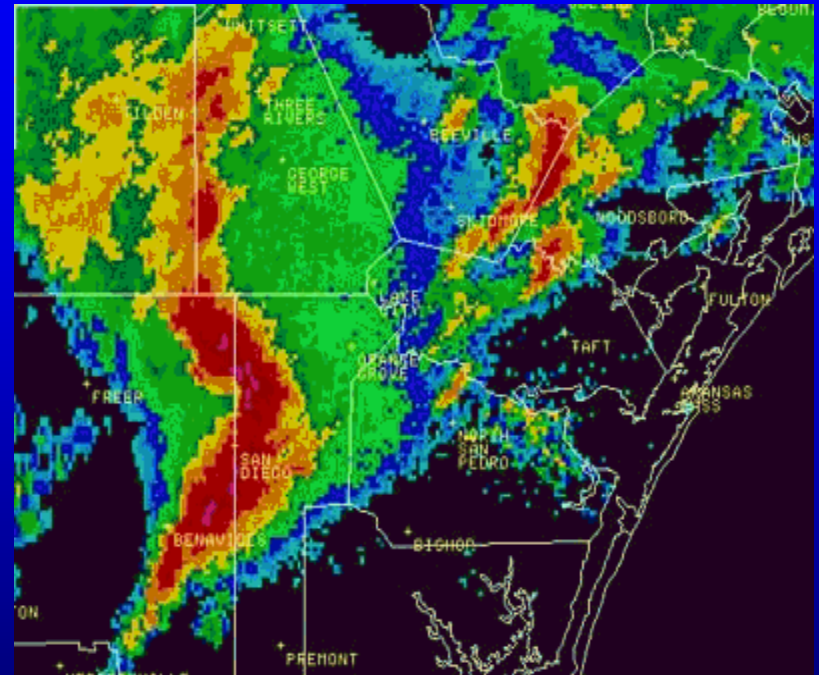


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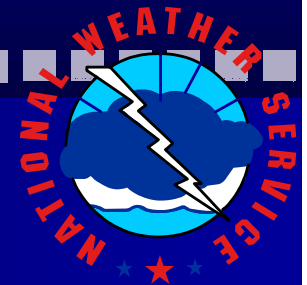


# Radar Images

- Available as a time loop for all Weather Service Radars in the U.S.
- Provides real time storm development, movement, and precipitation information



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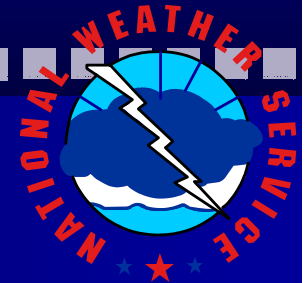
# Local Convective Watches

- **Watch County Notification (WCN) Product**

- **County Specific** - Tornado & Severe Thunderstorm (convective) Watches from your local experts at the WFO.
- **Updates** - Expansion and cancellation of Watches by counties from your local WFO.
- **Status** - Software testing underway.



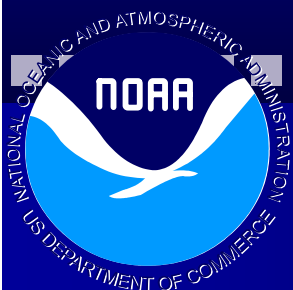
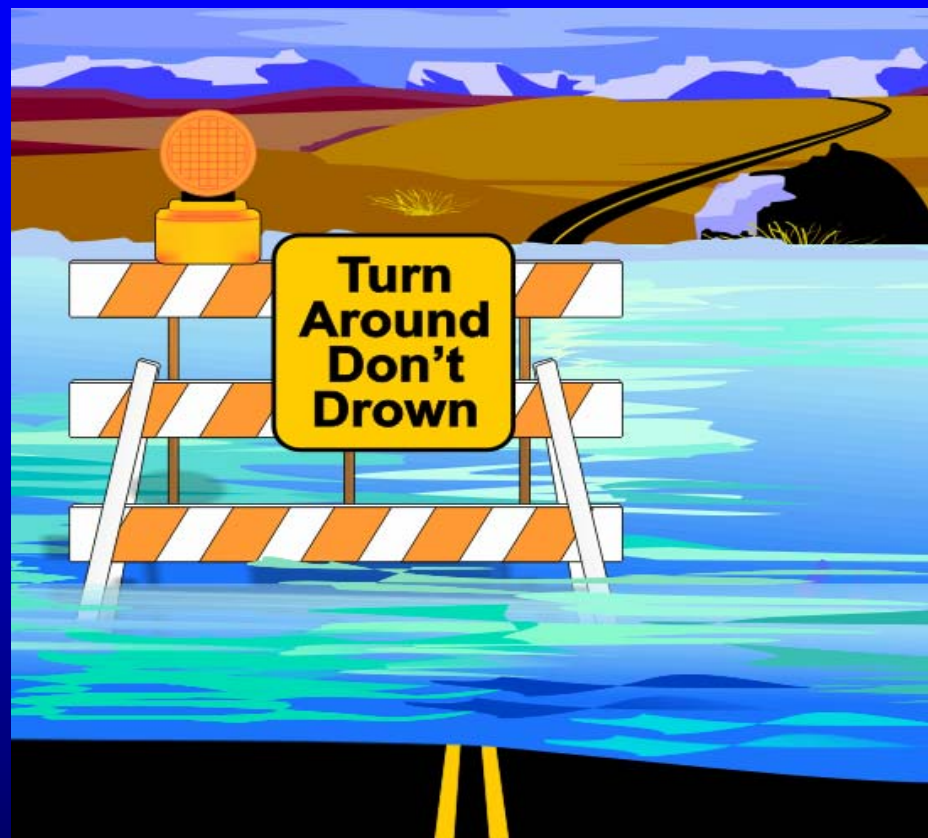
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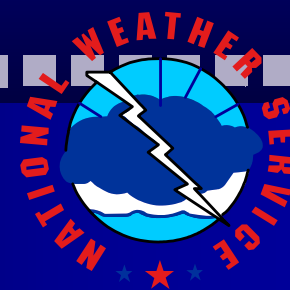


# Turn Around Don't Drown™

- Flood and Flash Flood Safety Campaign
- Over 30 partners representing local, regional, and national organizations
- Launched in May 2003



[www.srh.weather.gov/tadd](http://www.srh.weather.gov/tadd)  
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[www.srh.weather.gov](http://www.srh.weather.gov)

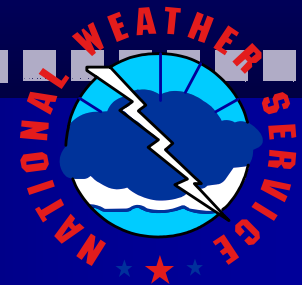


# StormReady®

- Grass roots start in Tulsa - 1998
- Expanded nationally in 2000
- 800+ nationwide sites
- Significantly helps improve weather preparedness



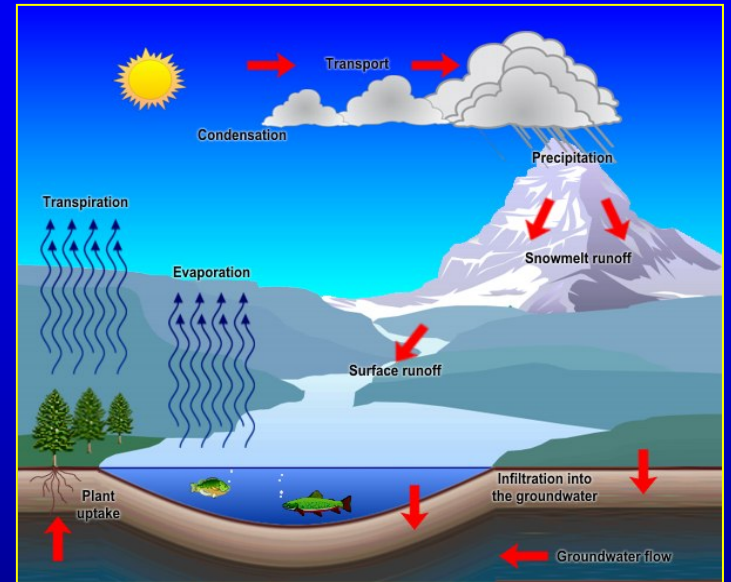
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# Project JETSTREAM

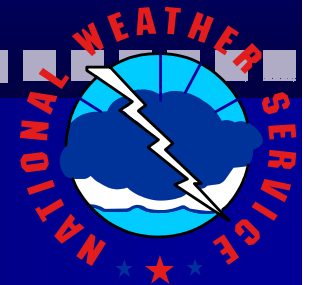
- A weather learning tool for EM, aviation and marine communities, teachers, students and general public.
- Includes weather dangers, preparedness & safety tips.
- Includes all areas of weather from thunderstorms to winter storms.



[www.srh.weather.gov/jetstream](http://www.srh.weather.gov/jetstream)

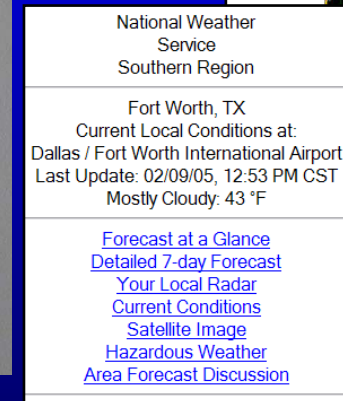
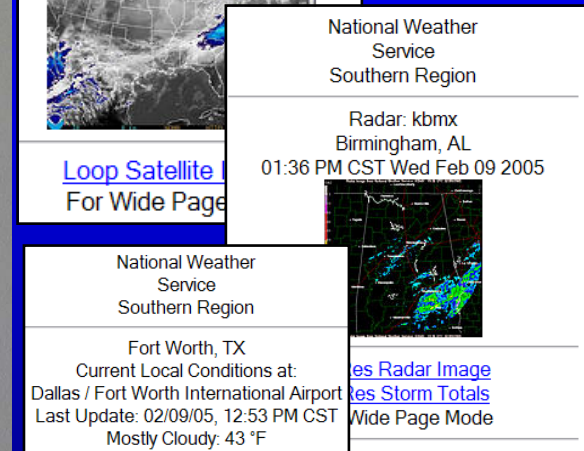
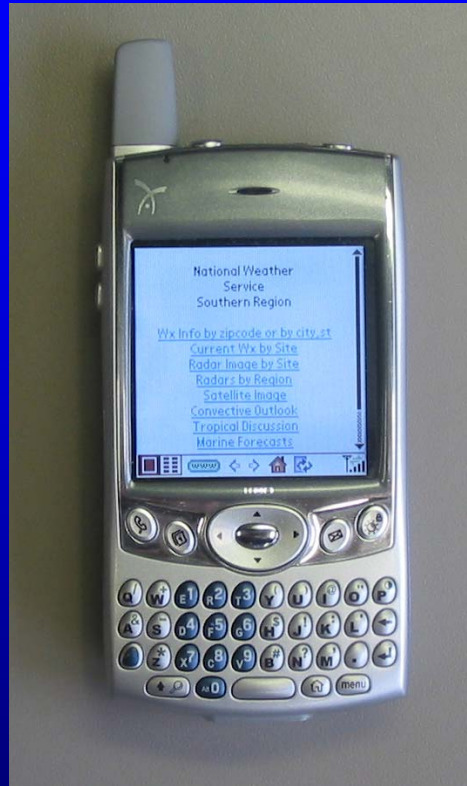


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# Mobile Weather

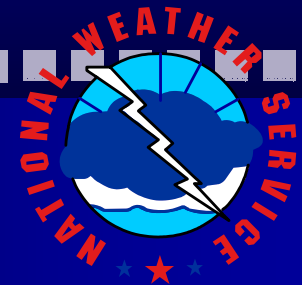
All the weather  
information you  
need is now  
available on  
mobile devices!



[www.srh.weather.gov/wml](http://www.srh.weather.gov/wml)

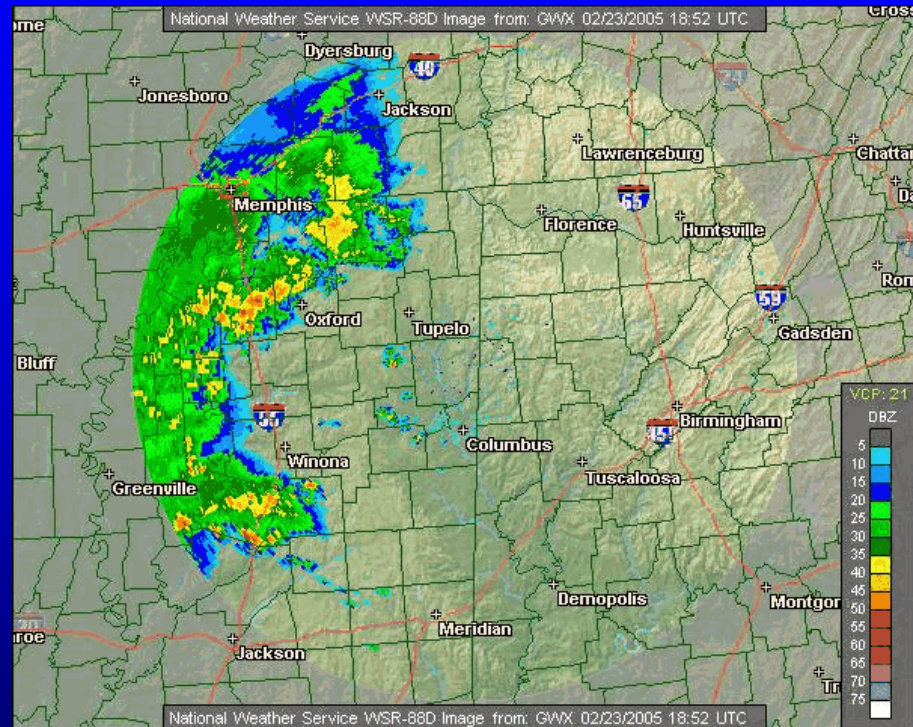


NWS SOUTHERN REGION  
[www.srh.weather.gov](http://www.srh.weather.gov)

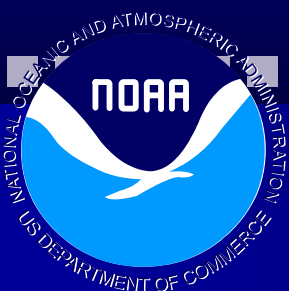


# Experimental Radar

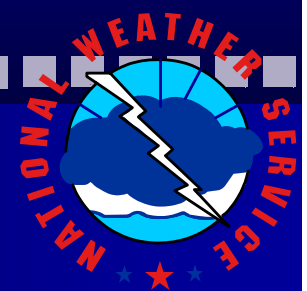
- Overlays radar with geospatial elements
- Ingests into GIS applications



[www.srh.weather.gov/ridge](http://www.srh.weather.gov/ridge)



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[www.srh.weather.gov](http://www.srh.weather.gov)



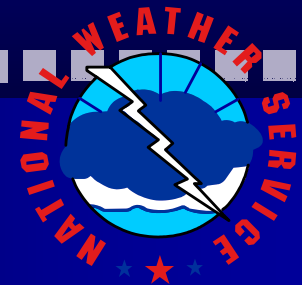
# The Future of the NWS

**“Forecast improvement will be through mesoscale (*local scale*) decision making, and sensible weather elements”**

- Most NWS users want to know weather and climate information.
- With use of local models and expertise, we will be able to meet increasing public and private partner needs for accuracy



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**“...government closest to the people,  
governs best.”**

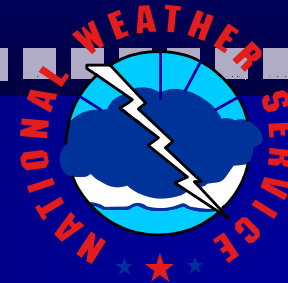
**- President George W. Bush**

As epitomized by the NWS:

**...government closest to the people,  
serves best!**



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# Questions?

**Bill.Proenza@noaa.gov**

**(817) 978-1000**

Would you like copies of the slides?

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At Left Margin Click on: Welcome from the Director

At Left Margin Click on: **“Feb. 2005 IAEM Conference”**



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